

# REPLACEMENT SHEET

Appln. Filing Date: April 26, 2001

Title: METHOD AND SYSTEM FOR CONTROLLING A  
POLICY-BASED NETWORK

Inventor(s): Yasusi Kanada et al.

Appln. No.: 09/842,130

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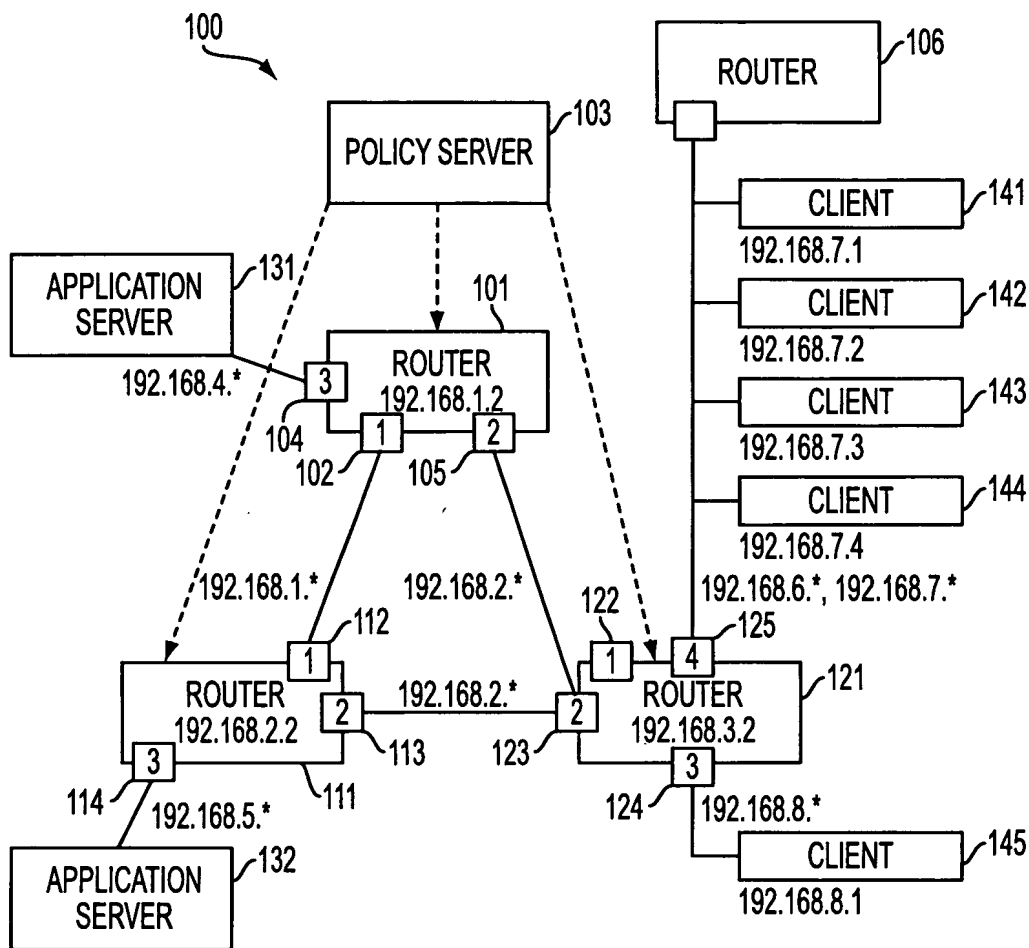


FIG. 1

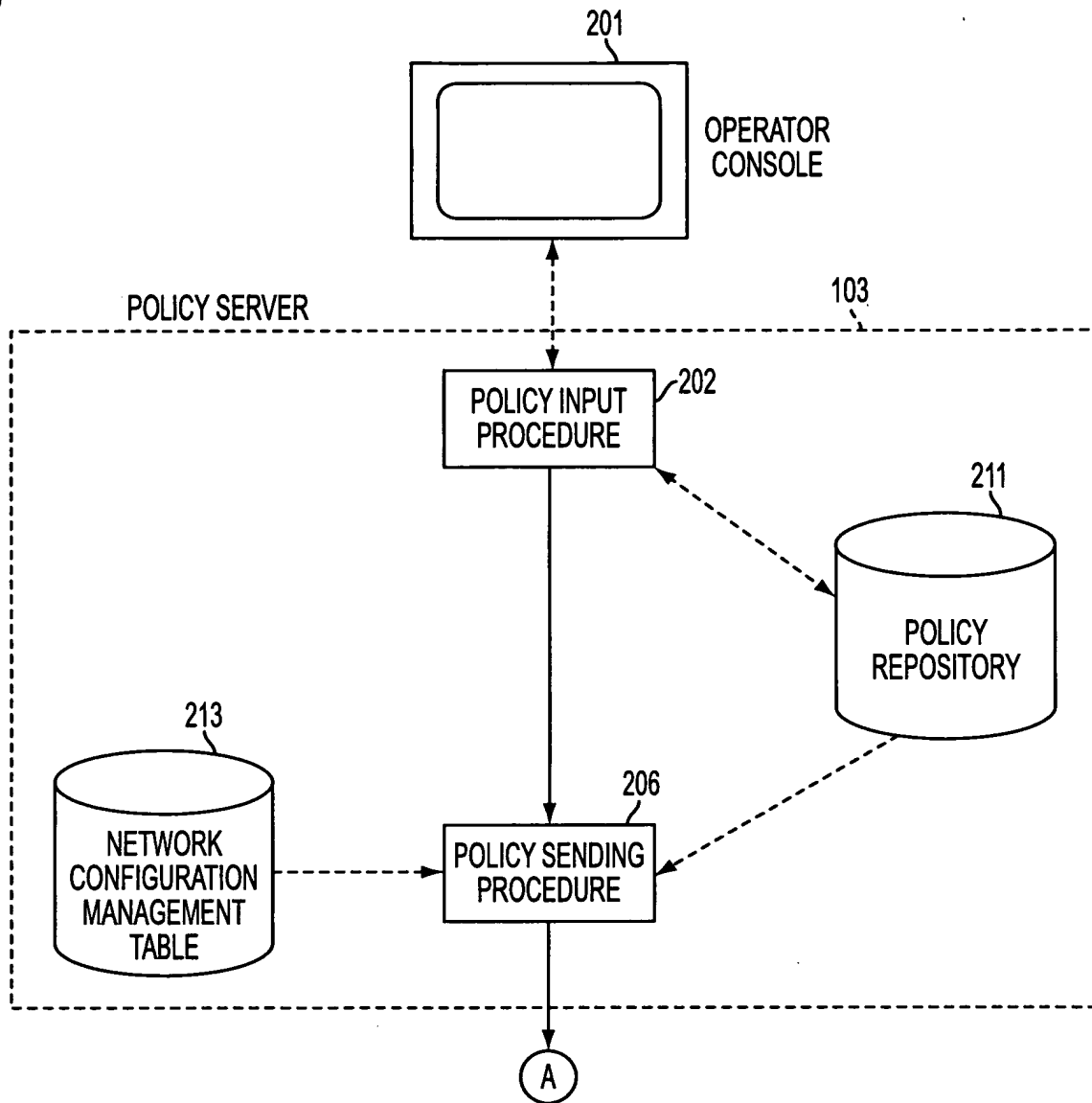
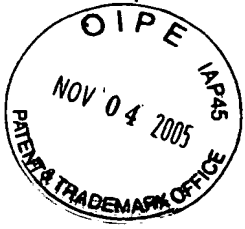


FIG. 2

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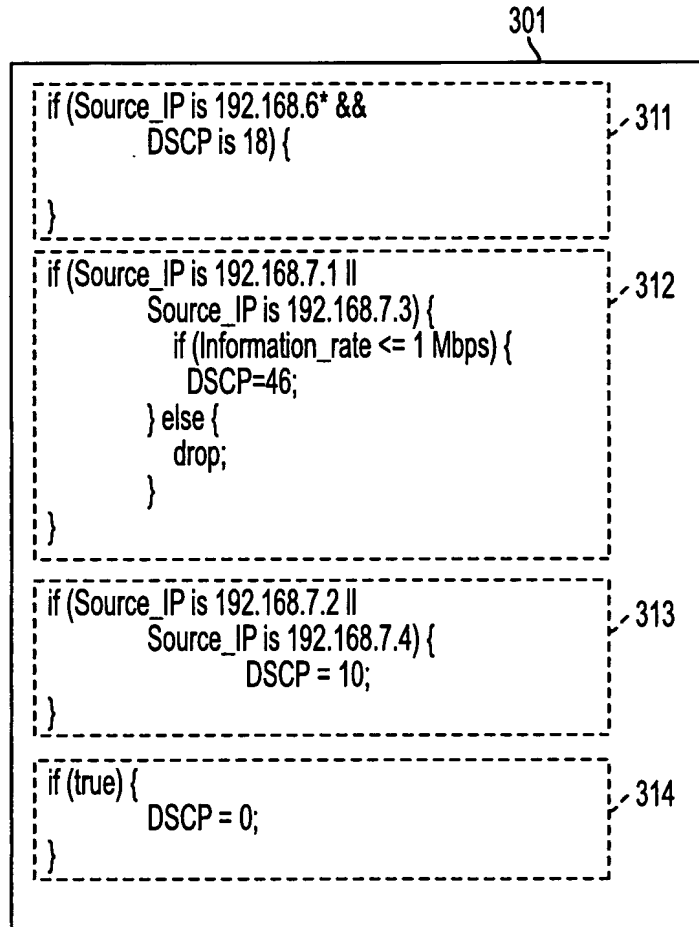


FIG. 3A

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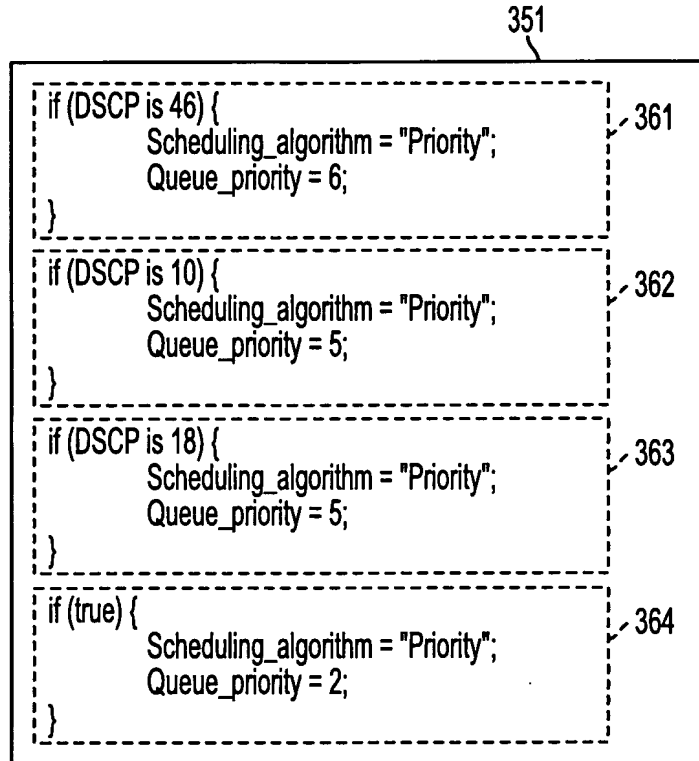


FIG. 3B

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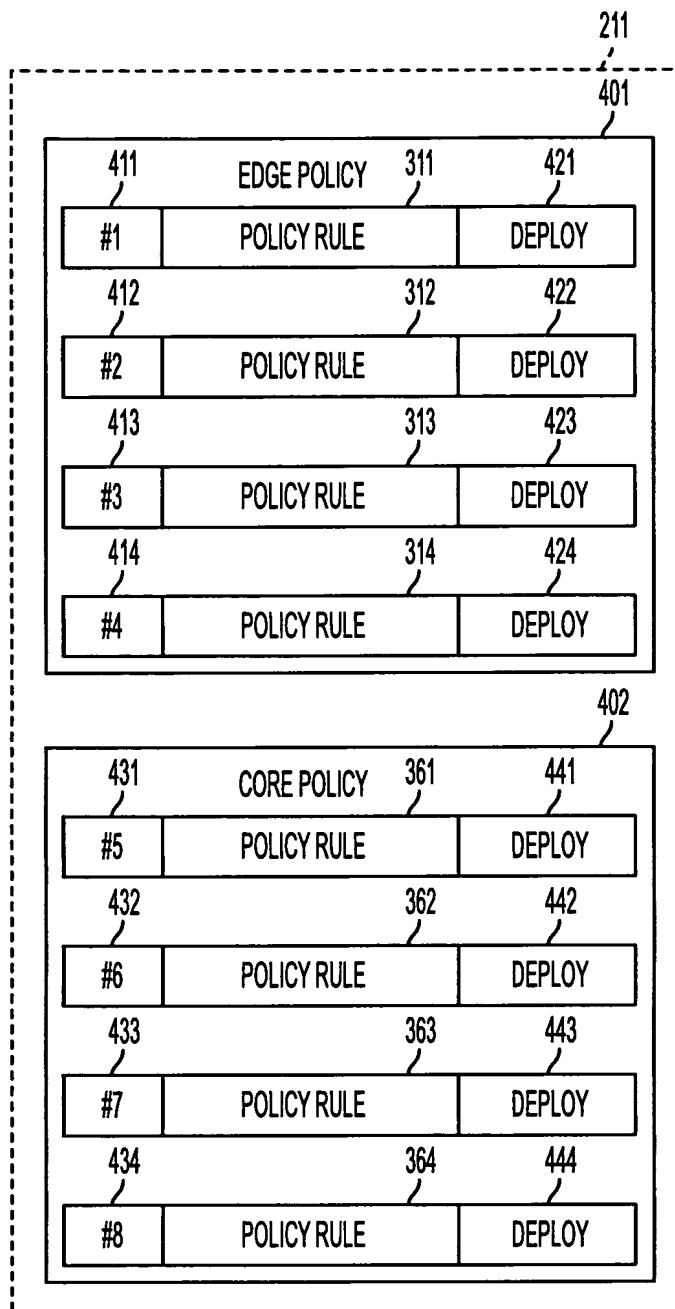


FIG. 4



202

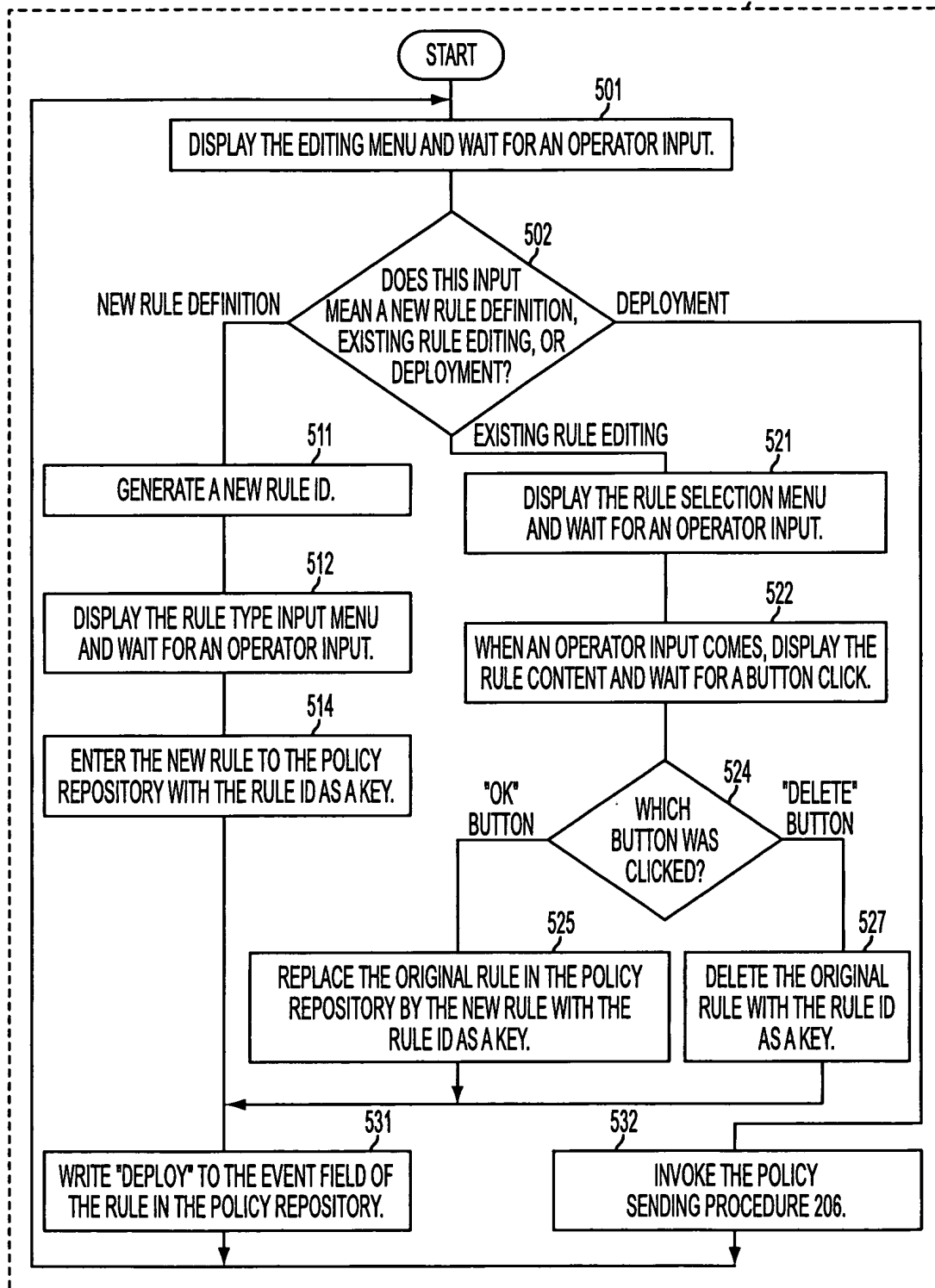


FIG. 5



212 ↓

TARGET IP	ROUTER IP	INTERFACE	
192.168.4.*	192.168.1.2	3	← 602
192.168.5.*	192.168.2.2	3	← 603
192.168.6.*	192.168.3.2	4	← 604
192.168.7.*	192.168.3.2	4	← 605

↑ 611                  ↑ 612                  ↑ 613

**FIG. 6**

1111 ↓

RULE ID	POLICY TYPE	RULE	INTERFACE	CODEP	
#1	EDGE	→ 311	4	90	← 1011
#2	EDGE	→ 312	4	118	← 1012
#3	EDGE	→ 313	4	174	← 1013
#4	EDGE	→ 314	1,2,3,4	230	← 1014
#5	CORE	→ 361	1,2,3,4	332	← 1015
#6	CORE	→ 362	1,2,3,4	364	← 1016
#7	CORE	→ 363	1,2,3,4	300	← 1017
#8	CORE	→ 364	1,2,3,4	428	← 1018

↑ 1021                  ↑ 1022                  ↑ 1023                  ↑ 1024                  ↑ 1025

**FIG. 10**

1101 ↓

LABEL TYPE	LABEL VALUE	DEFINING RULE	REFERRING RULE	
DSCP	18	#1	#7	← 1111
DSCP	46	#2	#5	← 1112
DSCP	10	#3	#6	← 1113
DSCP	0	#3	#8	← 1114

↑ 1121                  ↑ 1122                  ↑ 1123                  ↑ 1124

**FIG. 11**

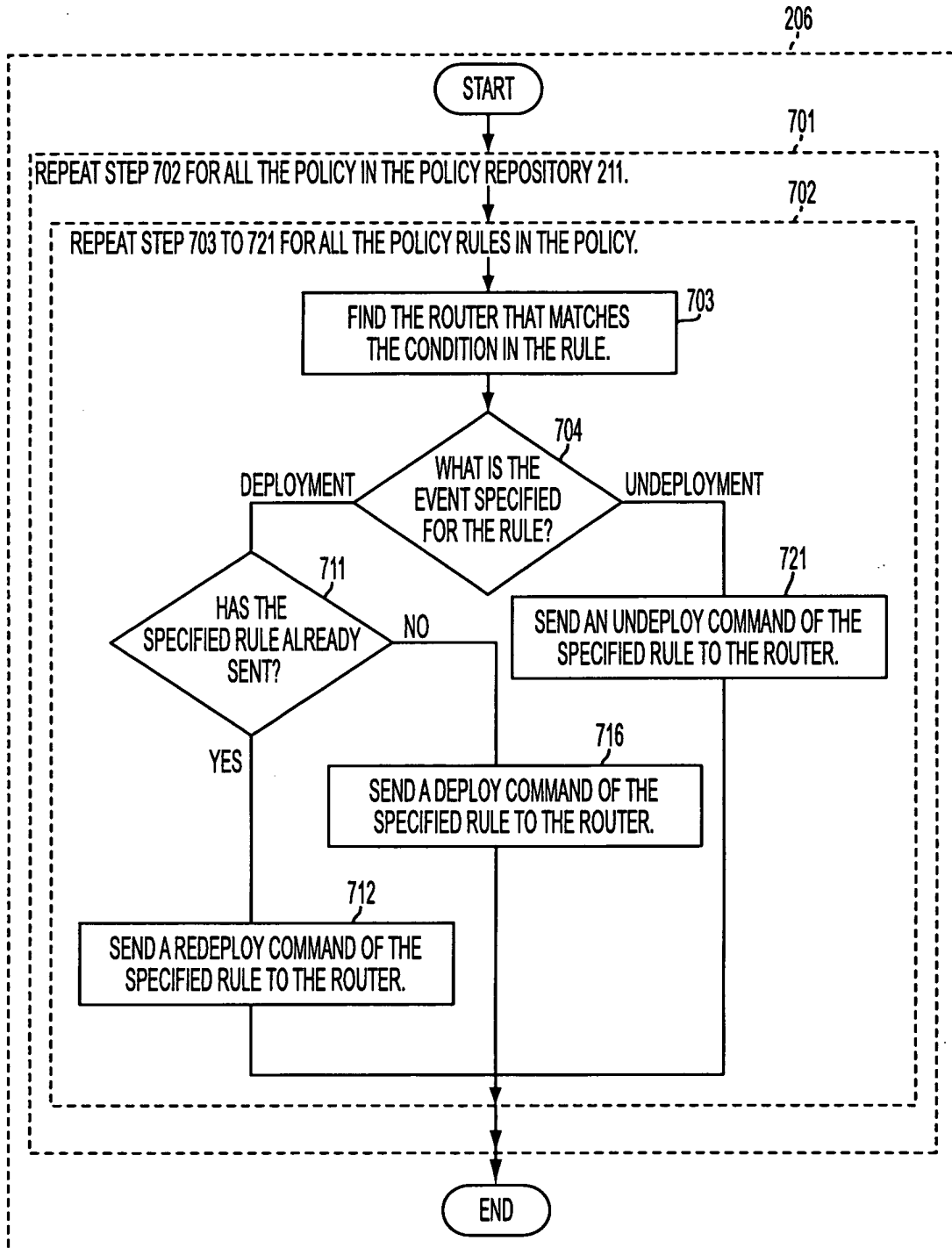
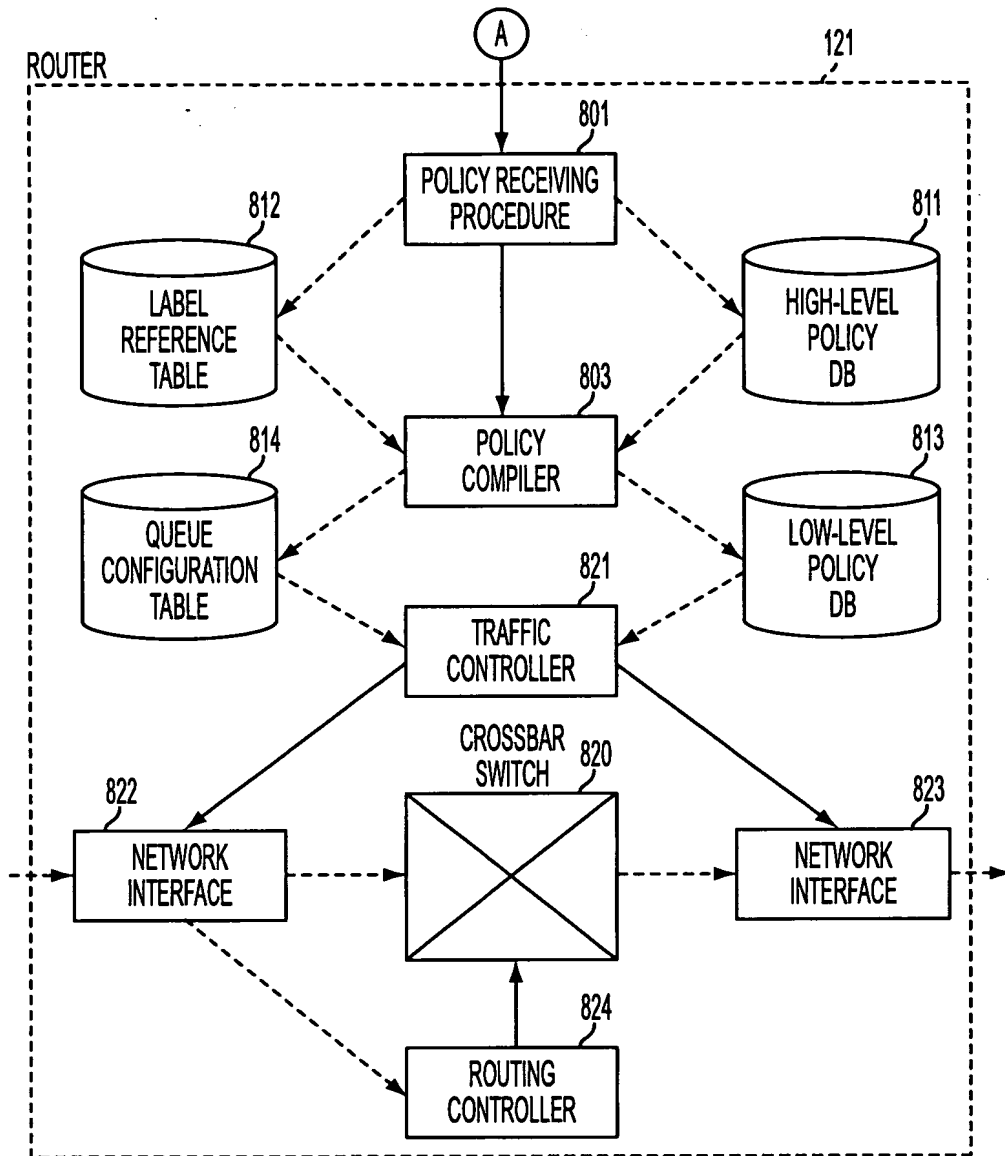
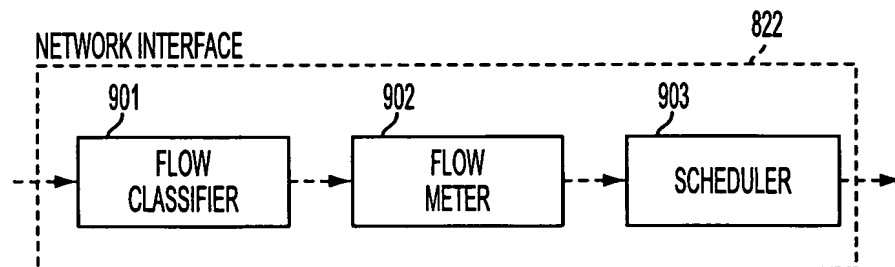


FIG. 7





**FIG. 8**



**FIG. 9**

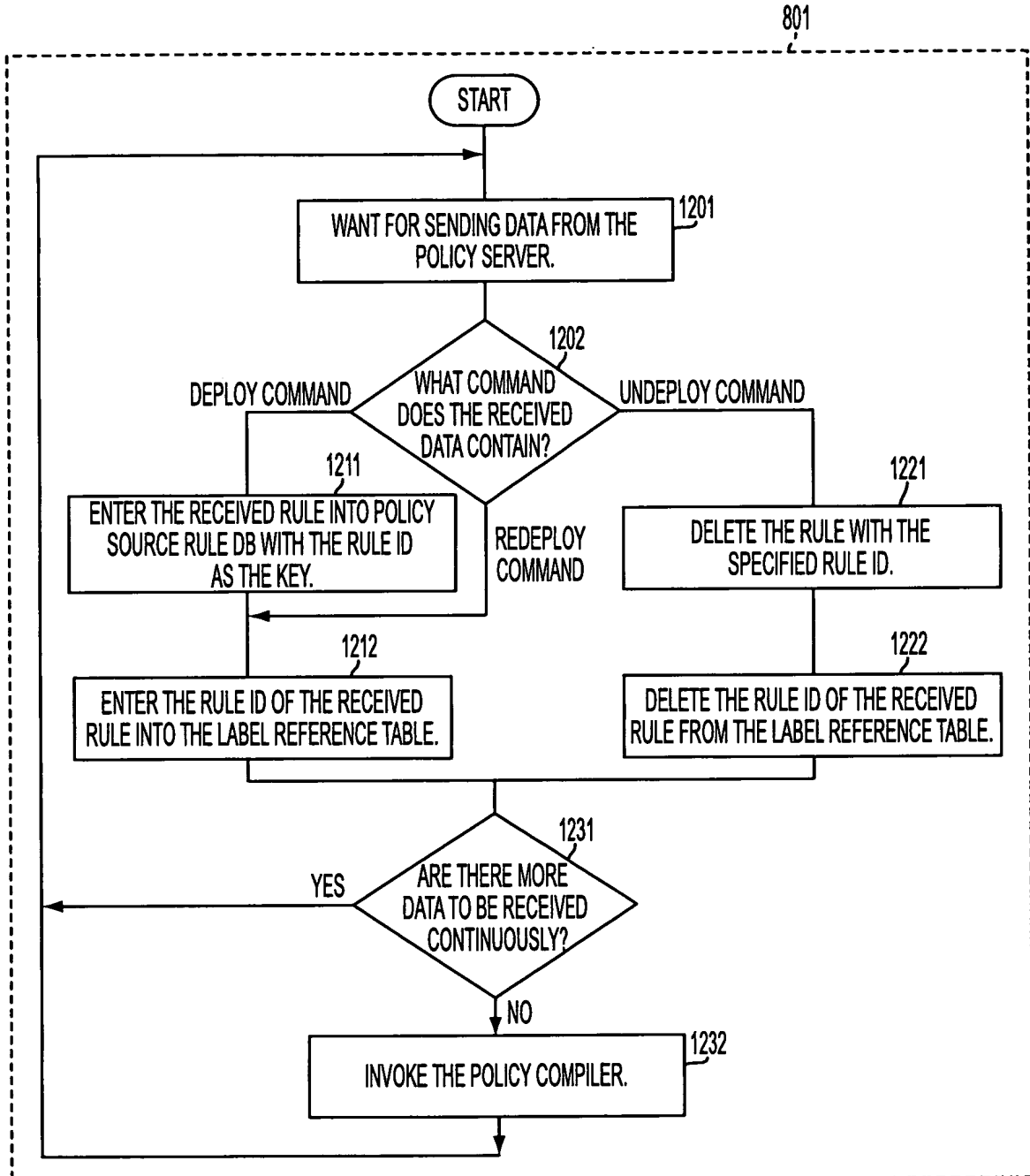
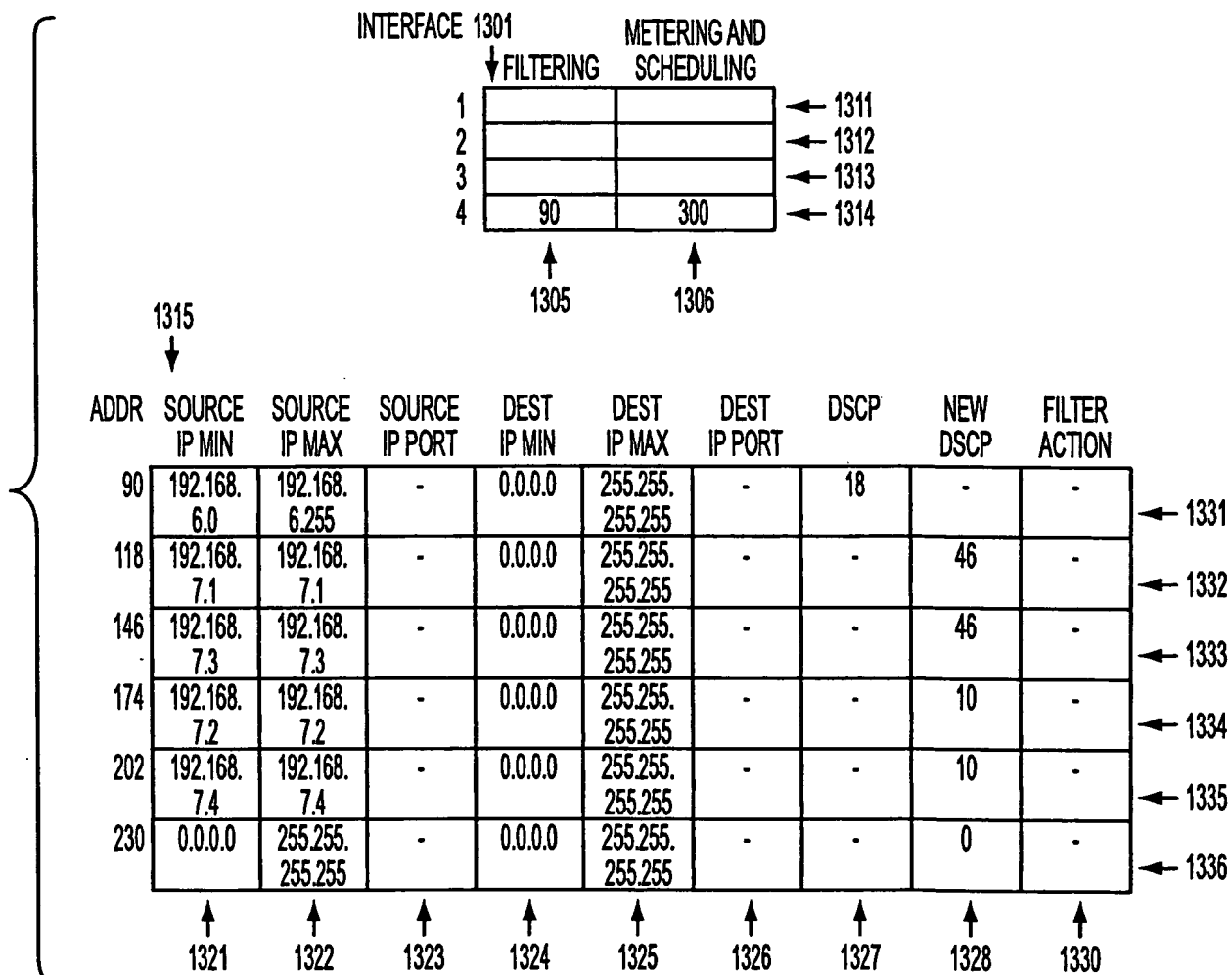
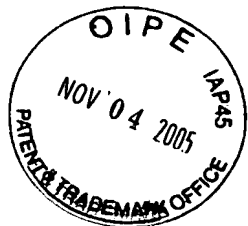


FIG. 12



**FIG. 13**



1316  
↓

ADDR	SOURCE IP MIN	SOURCE IP MAX	SOURCE IP PORT	DEST IP MIN	DEST IP MAX	DEST IP PORT	DSCP	INFO. RATE	IN QUEUE	OUT DSCP	OUT QUEUE	OUT DROP
300	192.168. 6.0	192.168. 6.255	-	0.0.0.0	255.255. 255.255	-	18	-	5	-	-	-
332	0.0.0.0	255.255. 255.255	-	0.0.0.0	255.255. 255.255	-	46	1000	6	-	-	DROP
364	192.168. 7.2	192.168. 7.2	-	0.0.0.0	255.255. 255.255	-	10	-	5	-	-	-
396	192.168. 7.4	192.168. 7.4	-	0.0.0.0	255.255. 255.255	-	10	-	5	-	-	-
428	0.0.0.0	255.255. 255.255	-	0.0.0.0	255.255. 255.255	-	-	-	2	-	-	-

↑      ↑      ↑      ↑      ↑      ↑      ↑      ↑      ↑      ↑      ↑  
1341   1342   1343   1344   1345   1346   1347   1348   1349   1350   1351   1352

FIG. 14

814 INTERFACE		1501 ↓ ADDRESS	1502 ↓ SCHEDLALG	
1	-	-	-	← 1511
2	-	-	-	← 1512
3	-	-	-	← 1513
4	-	PRIORITY	SCHEDL	← 1514

FIG. 15

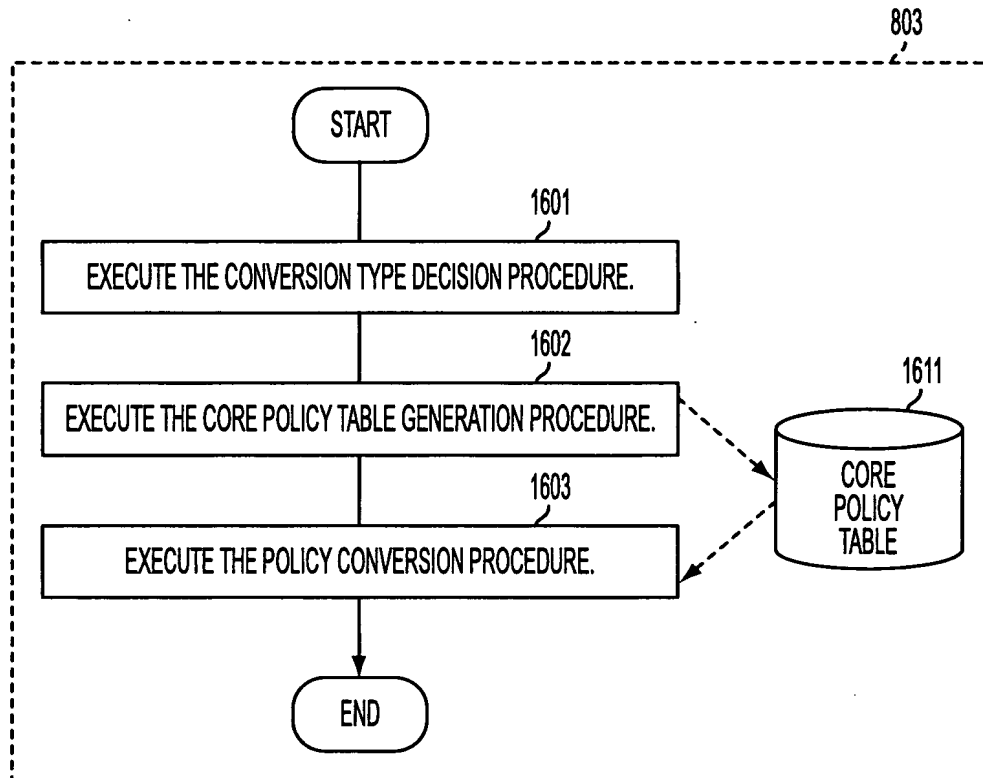
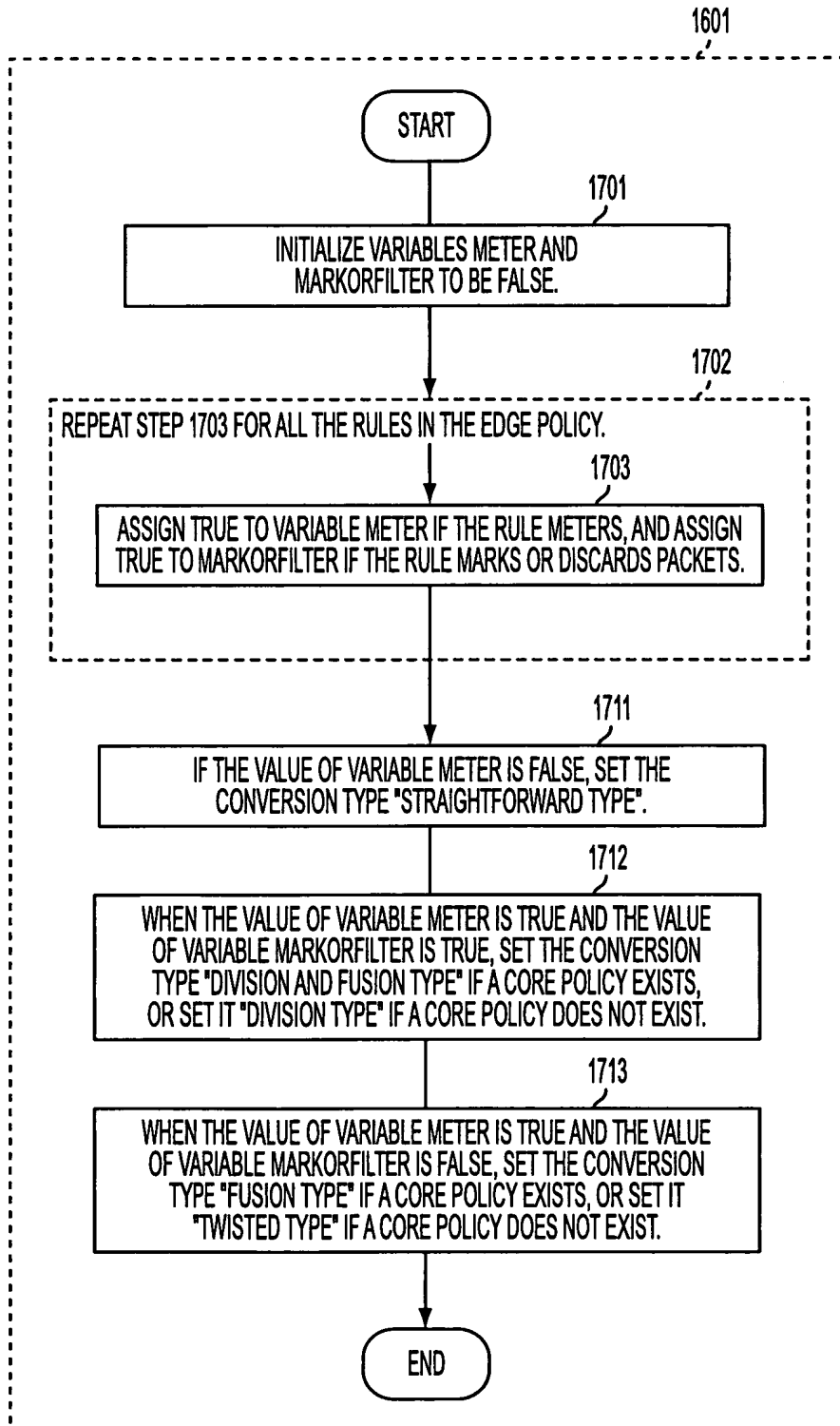


FIG. 16



**FIG. 17**



1611

DSCP	10	SCHEDULING_ALGORITHM = "PRIORITY"; QUEUE_PRIORITY = 5;	1801
DSCP	18	SCHEDULING_ALGORITHM = "PRIORITY"; QUEUE_PRIORITY = 5;	1802
DSCP	46	SCHEDULING_ALGORITHM = "PRIORITY"; QUEUE_PRIORITY = 6;	1803
DSCP	-	SCHEDULING_ALGORITHM = "PRIORITY"; QUEUE_PRIORITY = 2;	1804

**FIG. 18**

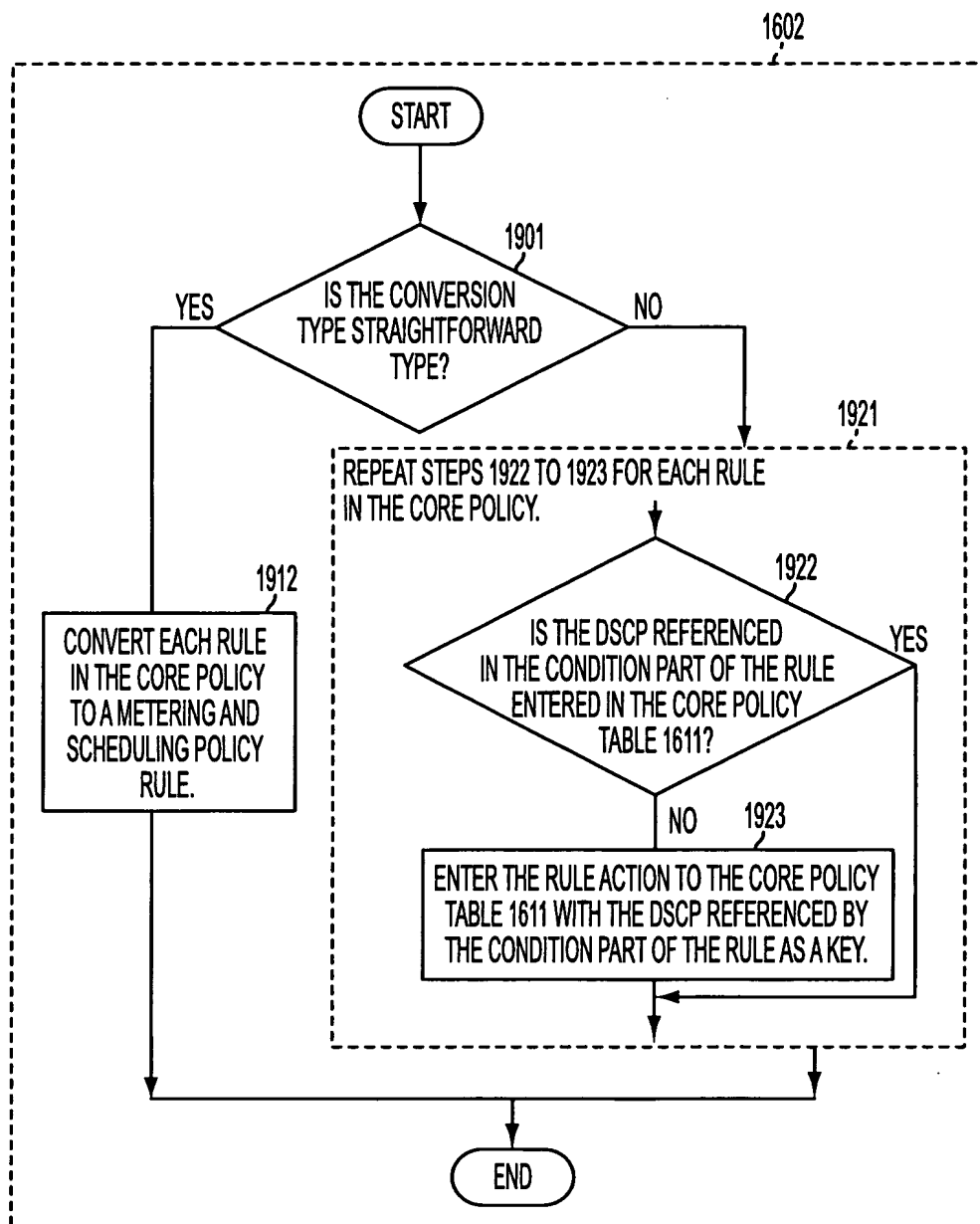


FIG. 19



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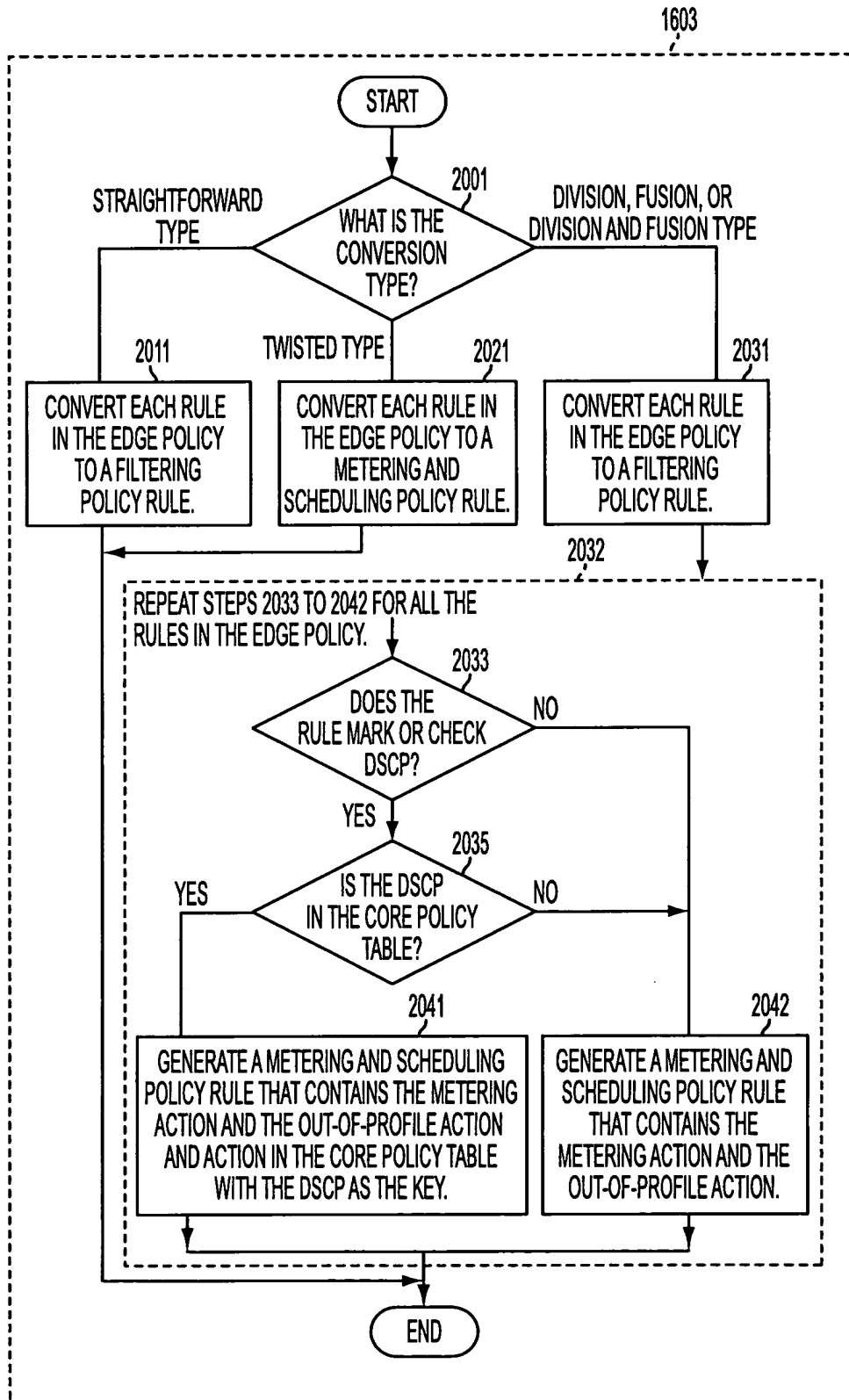


FIG. 20

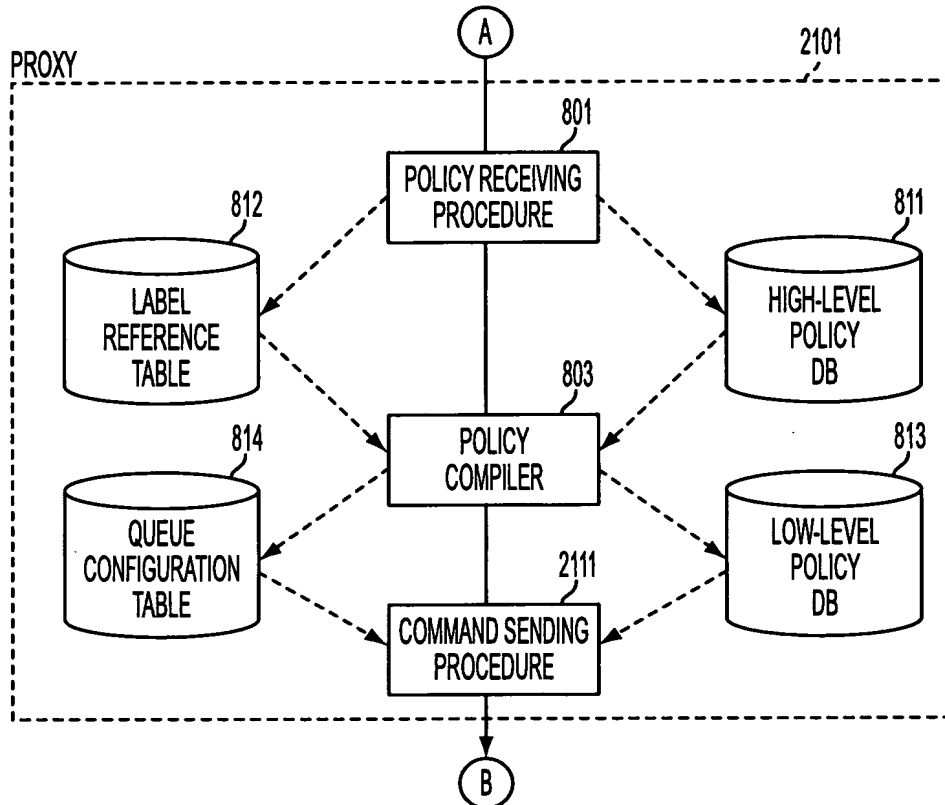


FIG. 21A

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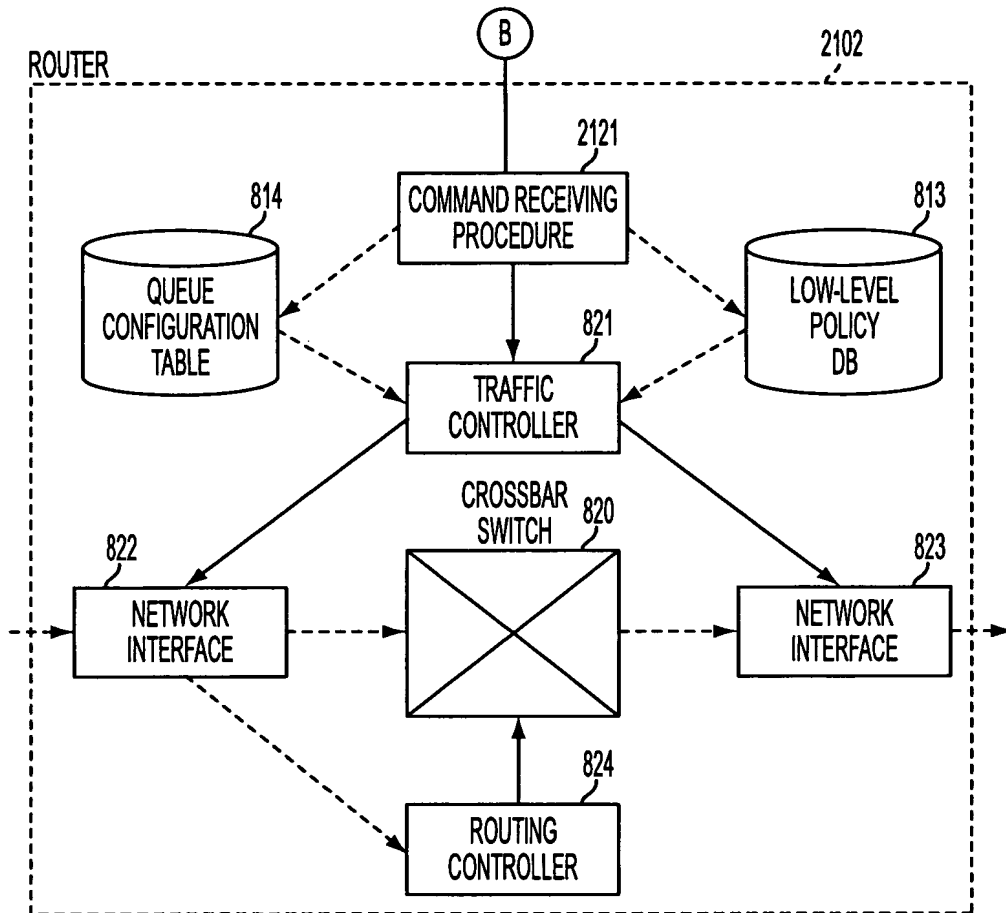
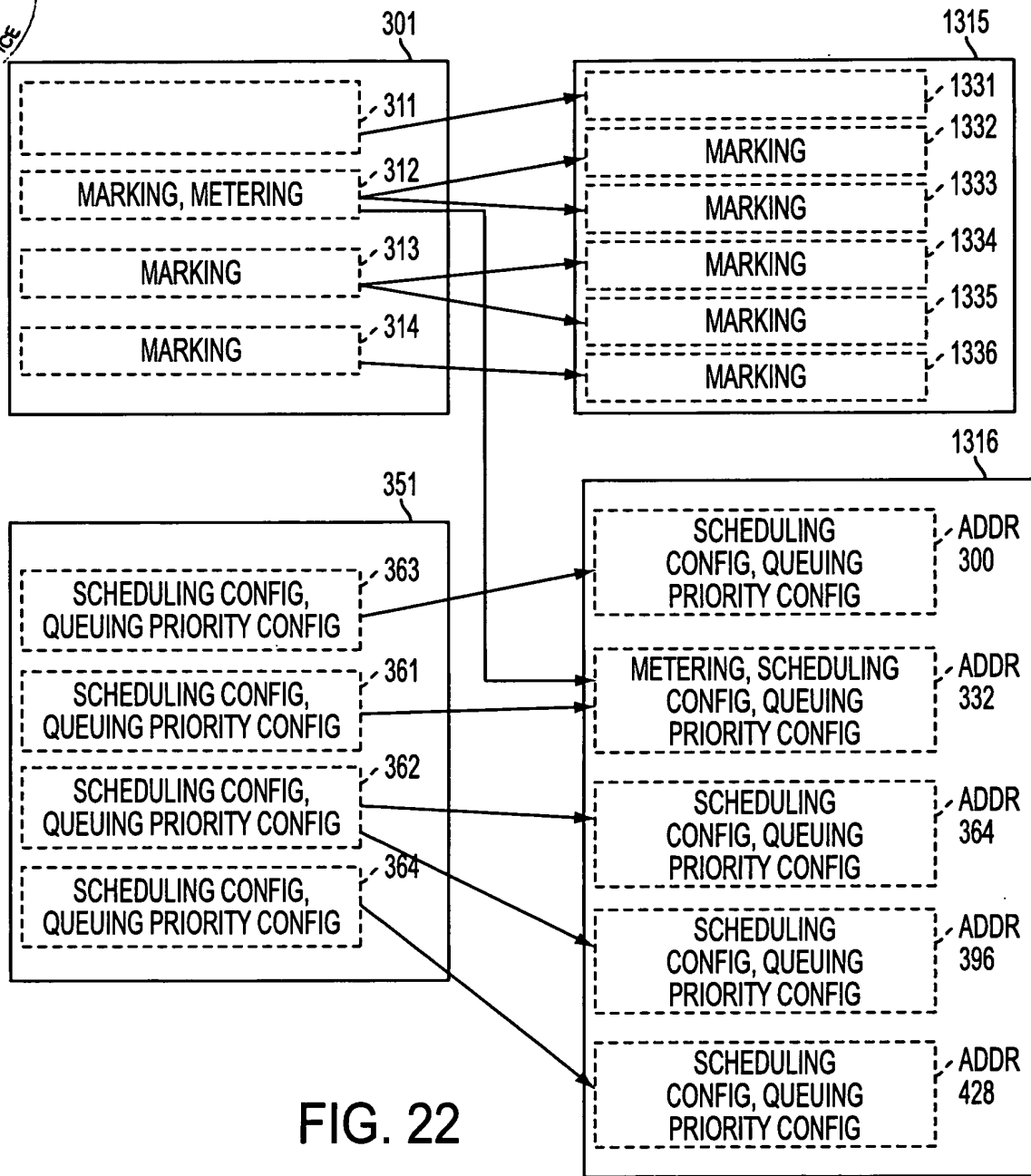


FIG. 21B



**FIG. 22**

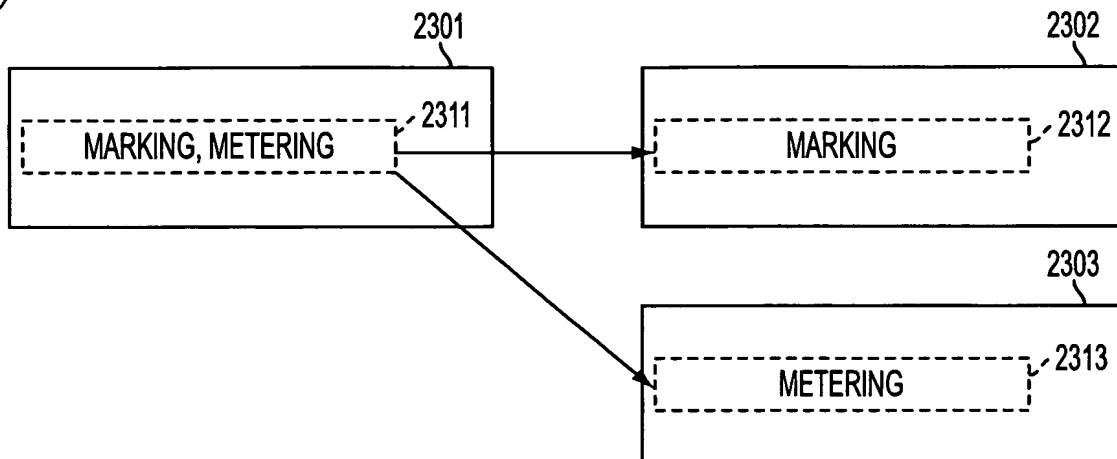


FIG. 23A

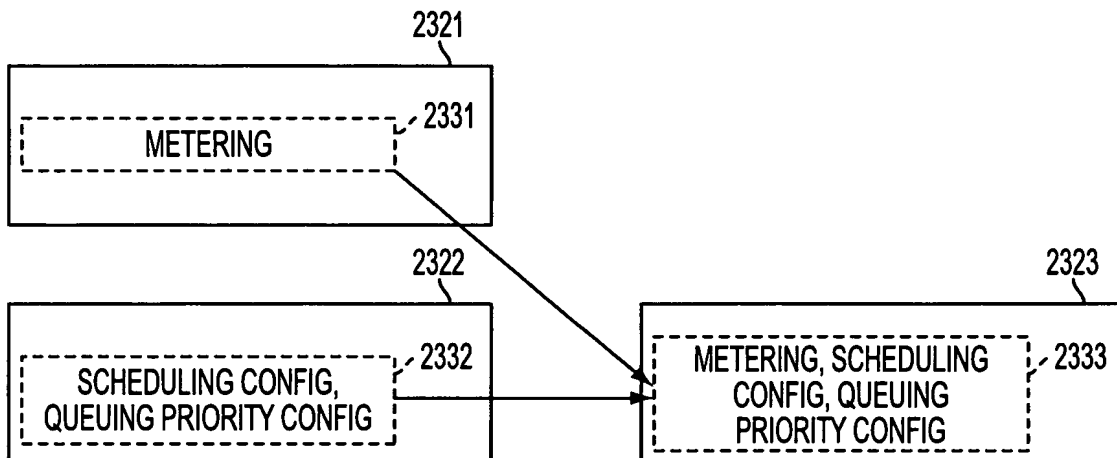


FIG. 23B